



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### KENTUCKY, Northeast

#### Lawrence County

Martha to Blaine	29	1100EST 1200EST			0	0	4K		Flash Flood
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Blaine Creek flooded roads and a campground.

### OHIO, Southeast

#### Morgan County

Countywide	01	1440EST 1445EST			0	0	5K		Thunderstorm Wind
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Scattered locations, mainly over the northern portion, had trees or large branches blown down.

#### Washington County

Marietta	01	1515EST			0	0	10K		Thunderstorm Wind
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A few structures sustained roof damage.

Thunderstorms formed in a typical summer environment, ahead of a strong cold front. The storms were moving from about 280 degrees on the compass at a speed around 40 mph.

### VIRGINIA, Northwest

#### Buchanan County

Hurley	08	2230EST			0	0	1K		Thunderstorm Wind
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Trees and large branches were blown down.

#### Buchanan County

Grundy to Oakwood	26 27	2100EST 0100EST			0	0	600K		Flash Flood
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Localized downpours occurred just south of Grundy. Private bridges were washed away. Grundy airport measured 3.8 inches, Vansant had 5.9 inches in about a 12 hour period. The sheriff reported Garden Creek, Dry Fork, and Greenbrier Creek were some of the streams that flooded.

#### Dickenson County

Countywide	26 27	2130EST 0100EST			0	0	300K		Flash Flood
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Rains of 2.5 to 4 inches were common in 12 hours, with isolated amounts of 4 to 6 inches. The cooperative observer at John Flannagan Lake measured 4 inches. Birch Gap, along the Kentucky border, measured 5.9 inches, Clincho 5.1 inches, and Nealy Ridge 4.8 inches. Clintwood had 2.9 inches of rain. The sheriff reported flooding along Route 80, plus around Haysi.

#### Buchanan County

Oakwood to Council	29	1110EST 1700EST			0	0	75K		Flash Flood
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Evacuations occurred along Garden Creek. Route 460 was closed for a time.

#### Dickenson County

East Portion	29	1110EST 1400EST			0	0	50K		Flash Flood
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### VIRGINIA, Northwest

Most rains were 1 to 2 inches, but Flat Spur near Trammel had 3.2 inches in less than 24 hours. Streams flowed across highways.

As a result of the flooding on the 26th and the 29th, Dickenson and Buchanan Counties were added to the existing FEMA disaster declaration 1386. In Buchanan County, 5 single family homes were destroyed, 30 homes and 2 businesses had major damage. In Dickenson County, 20 homes had major damage.

July rain totals in Dickenson County included 13.1 inches at Birch Gap along Pine Mountain, 11 inches at Clincho, 10.9 inches at John Flannagan Lake, 10.3 inches at Flat Spur of Hazel Mountain.

### WEST VIRGINIA, West

#### **Pleasants County** **2 NE St Marys**

01	1545EST			0	0	2K	<b>Thunderstorm Wind</b>
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Trees and large branches were blown down across Route 26, along Mount Carmel Ridge.

#### **Lewis County** **Jackson Mill to Lightburn**

05	1535EST 1540EST			0	0	50K	<b>Thunderstorm Wind</b>
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Several trees were blown down in all directions along Routes 1, 1/3, and 8/3. Fallen trees were also along the West Fork River. One outbuilding was demolished and 2 vehicles were damaged.

#### **Lincoln County** **Yawkey**

05	1650EST			0	0	3K	<b>Thunderstorm Wind</b>
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Several trees or large branches were downed.

The thunderstorms were associated with a strong cold front for early July.

#### **Tyler County** **Countywide**

08	0330EST 0600EST			0	0	5K	<b>Flash Flood</b>
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County officials reported roads covered by small stream flooding, but no damage to dwellings. Widespread rainfall estimates of 2 to 3 inches, across Tyler County, were depicted by the National Weather Service radar. The cooperative observer at Middlebourne measured 2.4 inches of rain between 0200 and 0500E.

#### **Doddridge County** **Countywide**

08	0400EST 0615EST			0	0	60K	<b>Flash Flood</b>
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Rains of 2 to 3.5 inches fell in 3 hours or less time from the Tyler County border on southeast, through West Union to the Harrison County border near Big Isaac. The cooperative observer at West Union measured 3.4 inches of rain. A mudslide from the adjacent hillside damaged the firehouse and its contents in West Union. The rear wall of the building collapsed. Seven families received financial assistance through FEMA.

#### **Harrison County** **Salem to Kincheloe**

08	0415EST 0615EST			0	0	10K	<b>Flash Flood</b>
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					Killed	Injured	Property	Crops	

### WEST VIRGINIA, West

Roads were flooded and damaged in the extreme southwestern portion of the county.

#### **Fayette County West Portion**

08	0800EST 1600EST		0	0	47M	<b>Flash Flood</b>
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The area from around Mount Olive on south to include Cannelton, Smithers, Gauley Bridge, Kanawha Falls, Beckwith, Beards Fork, Page, Wriston, Kincaid, Ansted, Fayetteville, Oak Hill, Pax, and Mindon were hit the hardest in the county. Severe flash flooding occurred along such streams as Smithers Creek, Scrabble Creek, Loop Creek, Laurel Creek, Armstrong Creek, Paint Creek, and Arbuckle Creek. Dwellings along steep slopes, but well away from streams, also sustained damaged from debris slides. These slides contained rock, mud, and trees, as the topsoil turned to a liquid. One example was in communities of Falls View and Gauley Bridge. Homeowners there tried to divert runoff away from their homes. Longtime county residents used such words as "unprecedented" and "historic" to describe the flooding. Preliminary damage assessments had 4 single family homes and 33 mobile homes destroyed, while 80 sustained major damage. The state condemned around 90 structures. It took over 2 months to repair and reopen a portion of Route 16 along Laurel Creek. Along the same stream at Beckwith, around 45 animals at the county animal shelter drowned. About 30 other animals managed to survive.

#### **Raleigh County West Portion**

08	0840EST 1530EST		0	0	40M	<b>Flash Flood</b>
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Areas along and west of the turnpike, which is Interstate 77, were hit the hardest. Rain amounts were less across eastern portions of the county. For example, the rain total in Beckley was 4.6 inches, but 2.6 inches at the Raleigh County Airport. Streams draining into the Clear Fork of the Big Coal River, plus into the Guyandotte River, saw severe flash flooding. This included such small communities as Leevale, Dorothy, Ameagle, Helen, and Rhodell. Preliminary damage assessment counted over 400 single family homes and mobile homes were destroyed. The lower reaches of Clear Fork at Leevale rose over 15 feet in the vertical, from a base stage near 13 feet to a record crest at 28.47 feet around 1400E. The previous maximum level was 20.8 feet on June 2, 1997. Local residents along the Clear Fork lost power around 0745E with flooding starting by 0900E. Residents described walls of water descending the steep hollows that run off Kayford Mountain into the Clear Fork. Flooding was not as severe along the March Fork of the Big Coal River, apparently sheltered slightly by Coal River Mountain.

#### **Boone County Whitesville to Orgas**

08	0900EST 1630EST		0	0	3M	<b>Flash Flood</b>
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Small headwater creeks, such as Seng Creek, started flooding around 0900E. Larger creeks along the Raleigh County line flooded by 1000E. Lastly, the Big Coal River flooded from the Whitesville vicinity on down to Sylvester. The crest on the Big Coal River then flattened-out toward Orgas. The most severe flooding was along the steep slopes adjacent to Seng Creek. Five homes were condemned. Approximately, 30 homes had major damage.

#### **Kanawha County Pond Gap to Leewood**

08	0900EST 1400EST		0	0	300K	<b>Flash Flood</b>
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### WEST VIRGINIA, West

Streams in the extreme eastern portion of the county flooded. Some of these streams included Hughes Creek, Bullpush Fork, Paint Creek, and Cabin Creek. This region was on the western fringe of the heavy rain. Damage was minor, when compared to points east and southeast.

#### **Wyoming County East Portion**

<b>08</b>	<b>0900EST</b>	<b>2130EST</b>	<b>1</b>	<b>0</b>	<b>60M</b>	<b>Flash Flood</b>
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The first flooding on small headwater streams and runs in Wyoming County occurred around 0900E. This would include such streams as Rockcastle Creek, Cabin Creek, the headwaters of Laurel Creek at Glen Rogers, and Slab Fork near Mabon. Flooding in and around Mullens began 1000-1100E, then crested near 1500E. Water was 5 to 9 feet deep in most of the downtown business section. "Totally wiped out" is how the county emergency director described the Mullens business district. Caskets from the local funeral home were seen floating in the streets, by residents trapped in their homes.

One death occurred along the Milam Fork in McGraws. Water rose vertically about 12 to 14 feet on this stream. Behind the Milam post office, this headwater stream is normally no more than 5 yards across. A 58 year old woman was in a small wood frame house, when it started to float away. Neighbors had tried to get her to leave previously, but she refused. Her house lodged against some trees near a small bridge. The house was then hit by either a mobile home or a double wide house. The floor came out, and she disappeared. Her body was found only about 30 yards downstream, in a neighbors fence. That neighbor said, "I can still see her in that house, by the window, holding her cat". The crest in McGraws was about 4 feet higher than the recent May flood.

Destruction to homes, bridges, and roads was widespread along the Laurel Fork, including such communities as Ravencliff, Sabine, Glen Fork, Jesse, and Matheny. A vertical rise of 20 to 25 feet occurred around Matheny. At the junction of the Clear Fork and the Laurel Fork, the low sections of Oceana were flooded.

On the main stem of the Guyandotte River, damage occurred along the entire stretch from Mullens through Pineville and Brenton. The crest at Pineville was around 21 feet between 1700 and 1800E. Flood stage is 13 feet. This crest at Pineville was some 39 inches higher than the crest on April 5, 1977. The old steel Pocahontas Fuel Company train trestle at Itman had withstood many a high water. However, the crest on the 8th, sheared the bridge from its northern abutment and pushed it into the south bank. At Baileysville, the vertical rise was 27 feet from a stage around 3.3 feet at dawn, to 30.6 feet around 1900E, or just before dark. In a 5 hour period during the afternoon, the river rose 22.5 feet.

The Corps of Engineers R. D. Bailey Dam held back the water. The lake elevation rose 3 feet per hour for 14 hours during Sunday night of July 8 into the 9th. The total rise to the lake elevation was 46 feet. Some 30 to 40 acres of trash also accumulated at the dam. In the flood's aftermath, no recreational activities were allowed at the lake for over 2 months.

Around 200 single family homes and mobile homes were destroyed in Wyoming County. Approximately, 550 homes and mobile homes had major damage. The state condemned at least 365 structures. F58PH

#### **Mcdowell County East Portion**

<b>08</b>	<b>0930EST</b>	<b>2130EST</b>	<b>0</b>	<b>0</b>	<b>50M</b>	<b>Flash Flood</b>
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		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

### WEST VIRGINIA, West

Streams that drain into the headwaters of the Tug Fork had severe flash flooding. This includes such streams as Elkhorn Creek and its North Fork. Some of the small communities hit hard were Landgraff, Jenkinjones, Anawalt, Kimball, Keystone, Eckman, Northfork, Maybeury, and Elkhorn.

The remains of homes and other structures collected against the bridges, restricting the flow. The mayor of Northfork said, "Northfork hollow is wiped out. I've never seen anything like this in my lifetime". In Landgraff, water levels reached the tops of parked cars. In Keystone, the water crest left debris on the elevated tracks of the Norfolk Southern Railroad. The larger community of Welch measured only 1.2 inches of rain on the 8th. However, the Tug Fork crested Sunday evening at a record level of 19.77 feet in Welch. The cooperative observer said this level was several feet higher than the crest during the flood of April, 1977. Bankfull is 10 feet at Welch.

Around 230 single family homes and mobile homes were destroyed in McDowell County. Approximately, 700 dwellings had major damage. The state condemned around 280 structures.

This episode, on the 8th of July, saw fast moving thunderstorms form along a north/south warm frontal boundary. This boundary marked the division between the dry and less humid air to the east, from the incoming steamy moist air, to the west. Low level inflow from the west and northwest was not disturbed, causing new storm formation. The initial training of the thunderstorms occurred across Tyler, Doddridge, and Harrison Counties during the predawn hours, dumping 2 to 3.5 inches of rain. A few hours later, the second and larger area of enhanced rainfall occurred across extreme eastern Kanawha County, western Fayette County, western Raleigh County, eastern Wyoming County, and extreme eastern McDowell County. The average west to east width of this enhanced rain was on the order of 30 miles, with a compass heading from 340 to 160 degrees.

In a 3 to 6 hour period, rains of 3 to 5.5 inches were common within that band. Maximum rain rates of 1.5 to 2.5 inches per hour occurred. Upslope, into these higher elevations, likely aided these rain amounts. Despite the initially dry top soil and low stream levels, the steep terrain and narrow valleys were quickly saturated. Between 0715 and 0830E, Hawks Nest State Park measured 2.3 inches of rain. With individual thunderstorm cells racing southeast at 40 to 50 mph, brief lulls occurred before new thunderstorm cells transversed this corridor. Lulls in the rain intensity were on the order of 5 to 15 minutes. The National Weather Service rain gauge in Mullens was washed away by the Slab Fork, but a Corps of Engineers automated gauge recorded a total of 5.37 inches. Other storm totals included 5.2 inches at Oceana and 5.0 inches at Hawks Nest State Park. A volunteer spotter at Page also reported 5.0 inches. Oak Hill and Pineville both measured 4.8 inches, while downtown Beckley had 4.6 inches. Elkhorn measured 4.5 inches of rain. A spotter on Arista Mountain on the Wyoming/Mercer County line had 4.3 inches of rain. London Lock and Dam had 4.0 inches of rain. A Corps of Engineers gauge one mile east of Crab Orchard also measured 4 inches. Dry Creek of Raleigh County saw 3.9 inches of rain.

As many as 14,000 homes lost power, with the most in Fayette and Wyoming Counties. Railroad beds were washed-out or undermined. Vulnerable spots were where railroad tracks crossed small streams running down from adjacent slopes. The Amtrak Cardinal train between Chicago and Washington D.C. was stopped in Charleston, as the main line through the New River gorge was damaged in Fayette County. A spokesman for the United States Postal Service said flood damages occurred at the offices located at Anawalt, Clear Fork, Dorothy, Glen Jean, Glen Ferris, Itmann, Kimball, Kincaid, Lynco, Maybeury, Minden, Mullens, Switchback, Wyco, and Wyoming. The most extensive damage was done to the offices in Kimball, Mullens, and Minden. The Mullens and Kimball offices were relocated to new quarters. The Minden office was washed off its foundation, but was stopped from floating further away, by its flag pole. Most of these offices were leased by the Postal Service, so the damages were the responsibility of the lessors. However, approximately \$200,000 was spent with postal funds in labor and materials for the recovery. The state reported 61 water systems were damaged. The state board of education estimated about 3 million dollars in damage to schools, most in Wyoming County.

More than 500 people gathered in 23 emergency shelters. Many flooded residents stayed with relatives. To assist in the clean-up, the air and army national guard personnel peaked at around 2400 members during the 4th week of July. Personnel from South Carolina, Virginia, Tennessee, and Kentucky, joined the West Virginia troops. The major general of the WV National Guard described the scene in southern West Virginia by saying, "It's just massive destruction". By month's end, 35,000 tons of debris had been hauled away by contractors. Much of the debris had collected on, or against, private and state bridges. The American Red Cross served over 275,000 meals to flood victims and recovery personnel.



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### WEST VIRGINIA, West

FEMA added more counties to the original disaster declaration 1378 that was initiated in May. The agency set up a large disaster field office in Charleston. Temporary and large term housing trailers were being established by the month's end, amounting to 29 million dollars in disaster housing.

To summarize, for many affected residents, this flood was not a matter of property loss, but of survival. Many along the small streams had to escape "walls of water" within minutes. A father of a family in Dorothy thought, "we'll never get out of this alive". Water roared out of the hollows and onto the wider valleys, carrying trees, rocks, mud, and pieces of homes. As the steep topsoil turned into a liquid, considerable damage was done to dwellings, due to the runoff and debris slides. Accounts from citizens included running up the sides of mountains, driving to higher ground and waiting in vehicles, escaping from roof tops, while others were trapped in their homes. Governor Wise assessed the damage from the air during the afternoon of the 8th. His helicopter was then pressed into the rescue efforts. The main reason there was only 1 fatality, in these counties, was the fact that the flood occurred on a Sunday. Most residents were still at home, rather than at work or school. As a result, the urge to travel was limited. Also, the daylight hours made their escapes safer. Then, almost as quickly as it came, the water was gone.

Newspaper headlines favored the words, "destruction" and "devastation" to describe this event.

#### **Taylor County**

**2 NW Grafton to  
Grafton**

<b>10</b>	<b>1935EST</b>						
<b>11</b>	<b>0045EST</b>			<b>0</b>	<b>0</b>	<b>400K</b>	<b>Flash Flood</b>

Thunderstorms formed ahead of a cold front. The storms dumped 2 to 4 inches of rain, over a small area, in less than 6 hours. The cooperative observer near Grafton measured 3.1 inches of rain. Flooding occurred inside the city limits of Grafton, plus along Plum Run, Wickwire Run, and Dry Run. County officials surveyed around 80 homes and 2 businesses that were affected. Taylor County was added to the previous FEMA disaster declaration 1378.

#### **Raleigh County**

**Helen to  
Rhodell**

<b>19</b>	<b>2145EST</b>						
	<b>2330EST</b>			<b>0</b>	<b>0</b>	<b>5K</b>	<b>Flash Flood</b>

#### **Wyoming County**

**Maben to  
Stephenson**

<b>19</b>	<b>2145EST</b>						
	<b>2330EST</b>			<b>0</b>	<b>0</b>	<b>5K</b>	<b>Flash Flood</b>

Rains of 1.5 to 2.5 inches fell in less than 3 hours. Fire departments and county officials reported water from Slab Fork into 1 home in Maben, and 2 in Pierpont. Winding Gulf flooded roads in the Helen and Ury vicinity.

#### **Raleigh County**

**Countywide**

<b>26</b>	<b>1220EST</b>						
	<b>2000EST</b>			<b>0</b>	<b>0</b>	<b>500K</b>	<b>Flash Flood</b>

Rains of 3 to 4 inches were common in 12 hours, most occurring in less than 6 hours. The cooperative observer in Beckley reported a 24 hour total of 5.3 inches. A spotter in Lester measured 4.3 inches, the Beckley airport had 3.5 inches, and Dry Creek had 3.1 inches of rain. Streams in the northern and western sections of the county were hit the hardest. Four families were evacuated along Beaver Creek, a few suffered extensive water damage. Water levels along the upper Clear Fork of the Big Coal River, near Artie and Clear Fork, were higher than on the 8th. Four homes along White Oak Road had water damage. A temporary bridge was destroyed near Dorothy. The bridge had just been built, after the flood on the 8th. The lower reaches of the Clear Fork near Leevale, crested 2 to 3 feet lower, compared to the flood on the 8th. The March Fork was likely higher than on the 8th. Around 1800E, Route 3 was closed near Rock Creek by that stream.



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### WEST VIRGINIA, West

#### **Fayette County**

##### **Countywide**

26	1330EST 1800EST			0	0	1.5M	<b>Flash Flood</b>
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Rains of 2 to 4 inches fell in 12 hours, most in less than 6 hours. Oak Hill reported 2.8 inches of rain. Further south, rains of near 4 inches were likely along the Raleigh County border. Communities such as Mount Hope, Kilsyth, Glen Jean, and Pax were hardest hit. Dunloup Creek and its tributaries flooded Kilsyth and Mount Hope. Around 50 families were forced to evacuate. The City Hall in Mount Hope had 5 feet of water, compared to 3 feet on the 8th.

#### **Putnam County**

##### **1.5 SE Hurricane to 4 S Hurricane**

26	1345EST 1530EST			0	0	200K	<b>Flash Flood</b>
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Five homes received water damage from Buff's Branch. Water was 2 feet deep in some of these homes. A car was caught in the overflowing waters of Sycamore Creek near Nye.

#### **Nicholas County**

##### **Countywide**

26	1530EST 1800EST			0	0	200K	<b>Flash Flood</b>
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Rains of 2.5 to 4.5 inches fell in less than 12 hours. Summersville Lake measured 4.2 inches, Fenwick had 3.6 inches, and Richwood reported 2.8 inches. The most significant flooding occurred west of the Route 19 corridor. The town of Swiss sustained damage to dwellings. Flooding and slides closed the roads along Twentymile Creek. Some residents along the Cherry River were evacuated, but a more significant rise would come 3 days later.

Several rounds of showers and thunderstorms were along and south of a cold front. Areas of Fayette and Raleigh Counties were just recovering from the floods on the 8th, when renewed flooding hit. Referring to the clean up and recovery, the Raleigh County emergency director said, "It's disheartening. We've probably lost 30% of what we accomplished".

#### **McDowell County**

##### **Countywide**

29	0900EST 1630EST			1	0	150K	<b>Flash Flood</b>
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An unsupervised 3 year old boy ended up in the swollen Jenny Branch. Jenny Branch is a small stream across from his home. The location was on the lower reaches of County Route 7/4 near Davy. The tragedy occurred around 0930-1000E. His body was found in the Tug Fork.

Huff Creek in Cyclone washed out private bridges. Flooding occurred along Elkhorn Creek again, but minor, compared to the 8th. Homes in Maitland were surrounded by water from the Tug Fork. Mobile homes were flooded in Anawalt. M3OU

#### **Webster County**

##### **East Portion**

29	1130EST 1600EST			0	0	25K	<b>Flash Flood</b>
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The headwaters of the Gauley, Elk, and Williams Rivers overflowed. Police encouraged 75 homes to evacuate in the Bergoo vicinity. Some campers were stranded.

#### **Boone County**

##### **East Portion**

29	1145EST 1730EST			0	0	300K	<b>Flash Flood</b>
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### WEST VIRGINIA, West

Pond Fork and its tributaries flooded, entering homes along Route 85. County officials said, "we have about 160 homes affected, from water around the home, to water inside the front door".

#### **Kanawha County East Portion**

29	1200EST 1330EST				0	0	5K	Flash Flood
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Paint Creek surrounded a few mobile homes near Hansford.

#### **Raleigh County West Portion**

29	1200EST 1700EST				0	0	50K	Flash Flood
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Drews and and Peachtree Creeks flooded homes near Naoma. Around 40 people were evacuated. Minor overflow occurred elsewhere.

#### **Logan County Lorado**

29	1215EST 1530EST				0	0	15K	Flash Flood
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About a dozen residents were evacuated along the upper reaches of Buffalo Creek.

#### **Mingo County Gilbert**

29	1215EST 1530EST				0	0	10K	Flash Flood
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Overflow from Horsepen and Gilbert Creeks blocked roads.

#### **Fayette County Countywide**

29	1230EST 1700EST				0	0	200K	Flash Flood
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On the order of 30 people were evacuated in Beards Fork, Page, Kincaid, and Powellton. At Nallen, on the Meadow River and the Nicholas County line, rescue teams used ropes to help take residents to safety.

#### **Nicholas County Countywide**

29	1250EST 1800EST				0	0	500K	Flash Flood
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The mayor of Richwood reported around 30 homes and a business flooded by the waters of the Cheery River, or by runoff from the mountainsides. Most of the homes had less than a foot of water, but 3 homes had more than 2 feet of water inside. A 120 bed nursing home was evacuated. Water also got into the basement of the hospital. Mudslide and high water on Routes 39 and 55, cut off the town of Richwood. Electricity was also out for about 3 hours. Around a dozen homes in Cottle, 12 homes in the Mount Nebo-Mount Lookout area, and 5 homes along the Fayette County border around Nallen, were flooded.

#### **Pocahontas County West Portion**

29	1300EST 1630EST				0	0	5K	Flash Flood
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Remote areas flooded, in the headwaters of the Cranberry and Williams Rivers. In this vicinity, Laurel Creek flooded roads near Woodrow.

#### **Wyoming County Countywide**

29	1330EST 1630EST				0	0	25K	Flash Flood
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		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Damage Crops	

### WEST VIRGINIA, West

Minor flooding blocked roads, but for the most part, people were able to remain in their homes. A few evacuations occurred around Glen Rogers.

The last onslaught of heavy July rain fell in waves during Saturday, the 28th, and Sunday, the 29th. The heaviest rain on the 28th was generally from the Charleston vicinity on east, into Nicholas County. Heavier rain fell again on the 29th. The most rain, over these 2 days, fell over the Gauley and Meadow River basins. Rain totals for the 48 hours were 6.1 inches at Mount Nebo, 5.8 inches at Summersville Lake, and 5.5 inches at Richwood. The cooperative observer from Mount Nebo described this event as, "big time flooding". Nicholas County was added to the FEMA disaster declaration 1378. The Meadow River near Mount Lookout crested Sunday evening the 29th at 13.92 feet, about a half foot higher than the old record crest set back on March 7, 1967. The Cranberry River near Richwood crested at 11.09 feet, the highest since August 21, 1989. The record crest there is 12.2 feet, set back on July 19, 1954. During the night of the 29th into the 30th, the lower reaches of the Gauley River at Belva crested at 19.09 feet. That was the highest stage at Belva since the 20.02 feet back on January 29, 1957. On the 30th, the crest passed Charleston, with a stage of 23.6 feet. The runoff from Boone and western Raleigh Counties caused the lower Coal River to crest at 23.1 feet at Tornado.

The monthly rain totals for July were 15.15 inches at Hawks Nest State Park in Fayette County. Summersville Lake had 14.7 inches during July. Oak Hill and Richwood both measured around 14.3 inches during the month. Mount Nebo had 13.9 inches, while downtown Beckley received 13.1 inches. Dry Creek of western Raleigh County had a monthly rain total of 11.6 inches.